Index to Volume 49

A'Brook R, *see* Lawson T.

Abdin OA, Zhou X, Coulman BE, Cloutier D, Faris MA, Smith DL. Effect of sucrose supplementation by stem injection on the development of soybean plants 2013

Abram B, *see* Taylor JE.

Abrams SR, *see* Cramer GR.

Adamowicz S, *see* Cárdenas-Navarro R.

Adams III WW, *see* Logan BA.

Adams SR, Pearson S, Hadley P. An appraisal of the use of reciprocal transfer experiments: assessing the stages of photoperiod sensitivity in chrysanthemum cv. Snowdon (*Chrysanthemum moriflorum* Ramat.) 1405

Al-Kaff NS, *see* Cecchini E.

Alconada Magliano TM, Casal JJ. *In vitro* cross-linking of extensin precursors by mustard extracellular isoforms of peroxidase that respond either to phytochrome or to wounding 1491

Allen DJ, Nogués S, Baker NR. Ozone depletion and increased UV-B radiation: is there a real threat to photosynthesis? (Review article) 1775

Allen GJ, Amtmann A, Sanders D. Calcium-dependent and calcium-independent K^+ mobilization channels in *Vicia faba* guard cell vacuoles 305

Allen PS, *see* Bauer MC.

Altamura MM, D'Angeli S, Capitani F. The protein of *rol*B gene enhances shoot formation in tobacco leaf explants and thin cell layers from plants in different physiological stages 1139

Amtmann A, *see* Allen GJ.

Andreeva AV, Kutuzov MA, Evans DE, Hawes CR. The structure and function of the Golgi apparatus: a hundred years of questions 1281

Andriolo JL, *see* Gary C.

Aparicio PJ, *see* Ullrich WR.

Aparicio-Tejo PM, *see* González EM.

Arango Y, Heise K-P. Localization of α-tocopherol synthesis in chromoplast envelope membranes of *Capsicum annuum* L. fruits 1259

Araus JL, *see* Febrero A.

Ardiles -Diaz W, *see* Rohde A.

Ardiles-Díaz W, *see* Sánchez-Fernández R.

Arisi A-CM, *see* Noctor G.

Arndt SK, *see* Clifford SC.

Aronen T, *see* Häggman H.

Arrese-Igor C, Gordon AJ, Minchin FR, Denison RF. Nitrate entry and nitrite formation in the infected region of soybean nodules 41

Arrese-Igor C, *see* González EM.

Artsaenko O, *see* Eckstein J.

Asp H, *see* Larsson EH.

Aspart L, *see* Bies N.

Assmann SM, Baskin TI. The function of guard cells does not require an intact array of cortical microtubules 163

Assor Z, *see* Moreshet S.

Atanassov AI, *see* Fowler MR.

Atkins CA, *see* Emery RJN.

Atkins CA, *see* Miguel LC.

Augé RM, Duan X, Croker JL, Witte WT, Green CD. Foliar dehydration tolerance of twelve deciduous tree species 753

Augé RM, *see* Croker JL.

Azcón-Aguilar C, *see* Pozo MJ.

Baker NR, *see* Allen DJ.

Bakhuizen R, *see* Wang M.

Ballesteros D, García-Sánchez MJ, Heredia MA, Felle H, Fernández JA. Inorganic carbon acquisition in *Riccia fluitans* 1741

Baltrusch M, *see* Haralampidis K.

Bannister A, *see* Cecchini E.

Bar-Joseph M, *see* Moreshet S.

Barea JM, *see* Pozo MJ.

Bartels D, *see* Heino P.

Baskin TI, *see* Assmann SM.

Battey N, *see* Tooke F.

Baudo MM, *see* Meza-Zepeda LA.

Bauer CS, Plieth C, Hansen U-P, Simonis W, Schönknecht G. A steep Ca^{2+}-dependence of a K^+ channel in a unicellular green alga 1761

Bauer CS, *see* Schönknecht G.

Bauer MC, Meyer SE, Allen PS. A simulation model to predict seed dormancy loss in the field for *Bromus tectorum* L. 1235

Beaujean A, Sangwan RS, Lecardonnel A, Sangwan-Norreel BS. *Agrobacterium*-mediated transformation of three economically important potato cultivars using sliced internodal explants: an efficient protocol of transformation 1589

Beerling DJ, McElwain JC, Osborne CP. Stomatal responses of the 'living fossil' *Ginkgo biloba* L. to changes in atmospheric CO_2 concentrations 1603

Beevers L, Raikhel NV. Transport to the vacuole: receptors and trans elements 1271

Belettre A, *see* Goupil P.

Bengough AG, *see* Whalley WR.

Berger G, *see* Péros J-P.

Bergkotte M, *see* Groeneveld HW.

Bernal-Lugo I, Leopold AC. The dynamics of seed mortality (Review article) 1455

Bertin N, *see* Gary C.

Bethmann B, Simonis W, Schönknecht G. Light-induced changes of cytosolic pH in *Eremosphaera viridis:* recordings and kinetic analysis 1129

Bettany AJE, Dalton SJ, Timms E, Morris P. Stability of transgene expression during vegetative propagation of protoplast-derived tall fescue (*Festuca arundinacea* Schreb.) plants 1797

Beyschlag W, *see* Eckstein J.

Bhargava S, *see* Jagtap V.

Bies N, Aspart L, Carles C, Gallois P, Delseny M. Accumulation and degradation of Em proteins in *Arabidopsis thaliana*: evidence for post-transcriptional controls 1925

Björkman T, Pearson KJ. High temperature arrest of inflorescence development in broccoli (*Brassica oleracea* var. *italica* L.) 101

Blatt MR, *see* Grabov A.

Blom-Zandstra M, Vogelzang SA, Veen BW. Sodium fluxes in sweet pepper exposed to varying sodium concentrations 1863

© Oxford University Press 1998

BLOOM AJ, *see* SMART DR.
BOERJAN W, *see* ROHDE A.
BOGRACHEVA TY, *see* WANG TL.
BOLLINI R, *see* CERIOTTI A.
BOOKER FL, MILLER JE. Phenylpropanoid metabolism and phenolic composition of soybean [*Glycine max* (L.) Merr.] leaves following exposure to ozone 1191
BOORSE G, *see* TAYLOR JE.
BOOT MJ, *see* WANG M.
BORCHERT S, *see* BÜKER M.
BORLAND AM, *see* ROBERTS A.
BORNMAN JF, *see* LARSSON EH.
BOTTO JF, *see* CASAL JJ.
BOURBOULOUX A, RAYMOND P, DELROT S. Effects of salicylic acid on sugar and amino acid uptake 239
BOUTIN J-P, *see* VUYLSTEKER C.
BOUWER R, *see* VAN DER SALM TPM.
BOUWKAMP JC, *see* FANG Z.
BOUZAYEN M, *see* RAMASSAMY S.
BRADY DJ, *see* EBBS SD.
BROSCH-SALOMON S, HÖFTBERGER M, HOLZINGER A, LÜTZ-MEINDL U. Ultrastructural localization of polysaccharides and *N*-acetyl-D-galactosamine in the secretory pathway of green algae (Desmidiaceae) 145
BROWN S, *see* COUCHY I.
BUCKHOUT TJ, *see* ECKHARDT U.
BUCKLEY TN, *see* MOTT KA.
BUITRAGO D, *see* MERODIO C.
BÜKER M, SCHÜNEMANN D, BORCHERT S. Enzymic properties and capacities of developing tomato (*Lycopersicon esculentum* L.) fruit plastids 681
BUNCE JA. The temperature dependence of the stimulation of photosynthesis by elevated carbon dioxide in wheat and barley 1555
BURKEY KO, *see* REID CD.
BURNETT EC, *see* DESIKAN R.
BURNETT EC, *see* NEILL SJ.
BÜSSIS D, HEINEKE D. Acclimation of potato plants to polyethylene glycol-induced water deficit. II. 1361
BÜSSIS D, KAUDER F, HEINEKE D. Acclimation of potato plants to polyethylene glycol-induced water deficit. I. 1349
BYERS SD, *see* WESELAKE RJ.
CALDERINI DF, *see* MIRALLES DJ.
CAMBIER P, *see* GILLET C.
CANNY MJ, *see* ENNS LC.
CAPITANI F, *see* ALTAMURA MM.
CÁRDENAS-NAVARRO R, ADAMOWICZ S, ROBIN P. Diurnal nitrate uptake in young tomato (*Lycopersicon esculentum* Mill.) plants: test of a feedback-based model 721
CARLES C, *see* BIES N.
CASAL JJ, SÁNCHEZ RA, BOTTO JF. Modes of action of phytochromes (Review article) 127
CASAL JJ, *see* ALCONADA MAGLIANO TM.
CASPERS MPM, *see* WANG M.
ČATSKÝ J, *see* POSPIŠILOVÁ J.
CECCHINI E, AL-KAFF NS, BANNISTER A, GIANNAKOU ME, MCCALLUM DG, MAULE AJ, MILNER JJ, COVEY SN. Pathogenic interactions between variants of cauliflower mosaic virus and *Arabidopsis thaliana* 731
CERIOTTI A, DURANTI M, BOLLINI R. Effects of N-glycosylation on the folding and structure of plant proteins 1091
CHAUVAUX N, *see* CHILD RD.
CHIEN C-T, *see* LIN T-P.
CHILD RD, CHAUVAUX N, JOHN K, ULVSKOV P, VAN ONCKELEN HA. Ethylene biosynthesis in oilseed rape pods in relation to pod shatter 829
CHOI S-B, *see* OKITA TW.
CLIFFORD SC, ARNDT SK, CORLETT JE, JOSHI S, SANKHLA N, POPP M, JONES HG. The role of solute accumulation, osmotic adjustment and changes in cell wall elasticity in drought tolerance in *Ziziphus mauritiana* (Lamk.) 967
CLOUTIER D, *see* ABDIN OA.
COHEN S, *see* MORESHET S.
COLMER TD, GIBBERD MR, WIENGWEERA A, TINH TK. The barrier to radial oxygen loss from roots of rice (*Oryza sativa* L.) is induced by growth in stagnant solution 1431
CONRAD U, *see* ECKSTEIN J.
CORLETT JE, *see* CLIFFORD SC.
CORLETT JE, WILKINSON S, THOMPSON AJ. Diurnal control of the drought-inducible putative histone H1 gene in tomato (*Lycopersicon esculentum* Mill. L.) 945
COUCHY I, MINIC Z, LAPORTE J, BROWN S, SATIAT-JEUNEMAITRE B. Immunodetection of Rho-like plant proteins with Rac1 and Cdc42Hs antibodies 1647
COULMAN BE, *see* ABDIN OA.
COVEY SN, *see* CECCHINI E.
CRAMER GR, KRISHNAN K, ABRAMS SR. Kinetics of maize leaf elongation. IV. 191
CRAMER MD, *see* VAN DER WESTHUIZEN MM.
CRAWFORD RMM, *see* JAMES EK.
CRITCHLEY C, *see* DODD IC.
CROKER JL, *see* AUGÉ RM.
CROKER JL, WITTE WT, AUGÉ RM. Stomatal sensitivity of six temperate, deciduous tree species to non-hydraulic root-to-shoot signalling of partial soil drying 761
CROOKSHANKS M, TAYLOR G, DOLAN L. A model system to study the effects of elevated CO_2 on the developmental physiology of roots: the use of *Arabidopsis thaliana* 593
CROXDALE J. Stomatal patterning in monocotyledons: *Tradescantia* as a model system 279
CSINTALAN Z, *see* PROCTOR MCF.
CUTILLAS-ITURRALDE A, FULTON DC, FRY SC, LORENCES EP. Xyloglucan-derived oligosaccharides induce ethylene synthesis in persimmon (*Diospyros kaki* L.) fruit 701
CUVILLIER C, *see* TOURMENTE S.
D'ANGELI S, *see* ALTAMURA MM.
D'AMBROGIO A, *see* MIRALLES DJ.
DALTON SJ, *see* BETTANY AJE.
DAT JF, *see* LOPEZ-DELGADO H.
DAVIES WJ, *see* HARTUNG W.
DAVIES WJ, *see* HETHERINGTON SE.
DAVIES WJ, *see* JARVIS AJ.
DAVOREN JM, *see* WESELAKE RJ.
DE ARMAS R, *see* LEGAZ ME,
DE GRAAFF AM, *see* HOLTMAN WL.
DE SOUZA MP *see* PILON-SMITS EAH.
DEL CURA B, *see* MERODIO C.
DELROT S, *see* BOURBOULOUX A.
DELSENY M, *see* BIES N.
DELSENY M, *see* VICIENT CM.
DEMMIG-ADAMS B, *see* LOGAN BA.
DENECKE J, ROBINSON D, VITALE A. The plant secretory system: mechanisms, pathways and applications in biotechnology (Meeting report) 1073
DENISON RF. *see* ARRESE-IGOR C.
DESIKAN R, BURNETT EC, HANCOCK JT, NEILL SJ. Harpin and hydrogen peroxide induce expression of a homologue of gp91-*phox* in *Arabidopsis thaliana* suspension cultures 1767

DESIKAN R, *see* NEILL SJ.
DEXTER AR, *see* WHALLEY WR.
DIJKEMA C, *see* KROOK J.
DOAN DNP, *see* STURARO M.
DODD IC, CRITCHLEY C, WOODALL GS, STEWART GR. Photoinhibition in differently coloured juvenile leaves of *Syzygium* species 1437
DODD IC, *see* WOODALL GS.
DOLAN L, *see* CROOKSHANKS M.
DONS JJM, *see* VAN DER SALM TPM.
DRUART N, *see* GOUPIL P.
DUAN X, *see* AUGÉ RM.
DULIEU H, *see* MÜLLER J.
DUMAS C. *see* MATTHYS-ROCHON E.
DUMAS-GAUDOT E, *see* POZO MJ.
DUNBERG A, *see* SUNDBLAD L-G.
DURANTI M, *see* CERIOTTI A.
DUTHION C, *see* MUNIER-JOLAIN NG.
EASTMOND PJ, RAWSTHORNE S. Comparison of the metabolic properties of plastids isolated from developing leaves or embryos of *Brassica napus* L. 1105
EBBS SD, BRADY DJ, KOCHIAN LV. Role of uranium speciation in the uptake and translocation of uranium by plants 1183
ECKHARDT U, BUCKHOUT TJ. Iron assimilation in *Chlamydomonas reinhardtii* involves ferric reduction and is similar to Strategy I higher plants 1219
ECKSTEIN J, ARTSAENKO O, CONRAD U, PEISKER M, BEYSCHLAG W. Abscisic acid is not necessarily required for the induction of patchy stomatal closure 611
EDWARDS D, KERP H, HASS H. Stomata in early land plants: an anatomical and ecophysiological approach 255
EGERTON-WARBURTON LM. A smoke-induced alteration of the sub-testa cuticle in seeds of the post-fire recruiter, *Emmenanthe pendulifera* Benth. (Hydrophyllaceae) 1317
EGERTSDOTTER U, VON ARNOLD S. Development of somatic embryos in Norway spruce 155
EHRHARDT T, *see* MÜLLER-RÖBER B.
EKLUND L, LITTLE CHA, RIDING RT. Concentrations of oxygen and indole-3-acetic acid in the cambial region during latewood formation and dormancy development in *Picea abies* stems 205
ELLERBY DJ, ENNOS AR. Resistances to fluid flow of model xylem vessels with simple and scalariform perforation plates 979
ELLIOTT MC, *see* FOWLER MR.
ELLIS RP, MARSHALL B. Growth, yield and grain quality of barley (*Hordeum vulgare* L.) in response to nitrogen uptake. II. 1021
ELLIS RP, *see* MARSHALL B.
EMERY RJN, LONGNECKER NE, ATKINS CA. Branch development in *Lupinus angustifolius* L. II. 555
ENNOS AR, *see* ELLERBY DJ.
ENNS LC, MCCULLY ME, CANNY MJ. Solute concentrations in xylem sap along vessels of maize primary roots at high root pressure 1539
ESCRIBANO MI, *see* MERODIO C.
ESPAGNOL MC, *see* TOURMENTE S.
ESQUÍVEL MG, FERREIRA RB, TEIXEIRA AR. Protein degradation in C_3 and C_4 plants with particular reference to ribulose bisphosphate carboxylase and glycolate oxidase 807
EVANS DE, *see* ANDREEVA AV.
FANG Z, BOUWKAMP JC, SOLOMOS T. Chlorophyllase activities and chlorophyll degradation during leaf senescence in non-yellowing mutant and wild type of *Phaseolus vulgaris* L. 503
FARIS MA, *see* ABDIN OA.
FAYE L, *see* RAYON C.
FEBRERO A, FERNÁNDEZ S, MOLINA-CANO JL, ARAUS JL. Yield, carbon isotope discrimination, canopy reflectance and cuticular conductance of barley isolines of differing glaucousness 1575
FEIERABEND J, *see* JAGTAP V.
FELLE H, *see* BALLESTEROS D.
FELLE HH. The apoplastic pH of the *Zea mays* root cortex as measured with pH-sensitive microelectrodes: aspects of regulation 987
FELLER U, *see* KAMBER L.
FENNELL A, MARKHART AH. Rapid acclimation of root hydraulic conductivity to low temperature 879
FENNIMORE SA, FOLEY ME. Genetic and physiological evidence for the role of gibberellic acid in the germination of dormant *Avena futua* seeds 89
FERNÁNDEZ JA, *see* BALLESTEROS D.
FERNÁNDEZ S, *see* FEBRERO A.
FERREIRA RB, *see* ESQUÍVEL MG.
FILELLA I, *see* PEÑUELAS J.
FISCUS EL, *see* REID CD.
FISCHBACH R, *see* HUTZLER P.
FOLEY ME, *see* FENNIMORE SA.
FOWLER MR, ONG LM, RUSSINOVA E, ATANASSOV AI, SCOTT NW, SLATER A, ELLIOTT MC. Early changes in gene expression during direct somatic embryogenesis in alfalfa revealed by RAP-PCR 249
FOYER CH, *see* LOPEZ-DELGADO H.
FOYER CH, *see* NOCTOR G.
FOYER CH, see SIGNORA L.
FRENSCH J, *see* MEUSER J.
FRIGERIO L, ROBERTS LM. The enemy within: ricin and plant cells 1473
FROSSARD J-S, *see* GARY C.
FRY SC, *see* CUTILLAS-ITURRALDE A.
FUJIHARA S, *see* YONEYAMA T.
FULTON DC, *see* CUTILLAS-ITURRALDE A.
FURUKAWA-STOFFER TL, *see* WESELAKE RJ.
GADUSH MV, *see* GILBERT GA.
GALILI G, *see* ROBINSON DG.
GALLAGHER JA, POLLOCK CJ. Isolation and characterization of a cDNA clone from *Lolium temulentum* L. encoding for a sucrose hydrolytic enzyme which shows alkaline/neutral invertase activity 789
GALLOIS P, *see* BIES N.
GALTIER N, *see* SIGNORA L.
GARCÍA-SÁNCHEZ MJ, *see* BALLESTEROS D.
GARY C, BERTIN N, FROSSARD J-S, LE BOT J. High mineral contents explain the low construction cost of leaves, stems and fruits of tomato plants 49
GARY C, LE BOT J, FROSSARD J-S, ANDRIOLO JL. Ontogenic changes in the construction cost of leaves, stems, fruits, and roots of tomato plants 59
GEERLINGS DNG, *see* WANG M.
GELADI P, *see* SUNDBLAD L-G.
GERENDÁS J, ZHU Z, SATTELMACHER B. Influence of N and Ni supply on nitrogen metabolism and urease activity in rice (*Oryza sativa* L.) 1545
GEßLER A, SCHULTZE M, SCHREMPP S, RENNENBERG H. Interaction of phloem-translocated amino compounds with nitrate net uptake by the roots of beech (*Fagus sylvatica*) seedlings 1529
GIANNAKOU ME, *see* CECCHINI E.

GIBBERD MR, *see* COLMER TD.

GILBERT GA, GADUSH MV, WILSON C, MADORE MA. Amino acid accumulation in sink and source tissues of *Coleus blumei* Benth. during salinity stress 107

GILLET C, VOUÉ M, CAMBIER P. Site-specific counterion binding and pectic chains conformational transitions in the *Nitella* cell wall 797

GOJON A, *see* TILLARD P.

GOLDSTEIN G, *see* MELCHER PJ.

GONZÁLEZ EM, APARICIO-TEJO PM, GORDON AJ, MINCHIN FR, ROYUELA M, ARRESE-IGOR C. Water-deficit effects on carbon and nitrogen metabolism of pea nodules 1705

GORDON AJ, *see* ARRESE-IGOR C.

GORDON AJ, *see* GONZÁLEZ EM.

GORDON AJ, *see* ROMANOV VI.

GOUPIL P, LONCLE D, DRUART N, BELETTRE A, RAMBOUR S. Influence of ABA on nitrate reductase activity and carbohydrate metabolism in chicory roots (*Cichorium intybus* L.) 1855

GRABOV A, BLATT MR. Co-ordination of signalling elements in guard cell ion channel control 351

GRACE SC, *see* LOGAN BA.

GREEN CD, *see* AUGÉ RM.

GRIFFITHS H, *see* ROBERTS A.

GRIMM B, *see* HÄRTEL H.

GROENEVELD HW, BERGKOTTE M, LAMBERS H. Leaf growth in the fast-growing *Holcus lanatus* and the slow-growing *Deschampsia flexuosa*: tissue maturation 1509

GRUSAK MA, *see* MARENTES E.

HABERER G, *see* TORRES RUIZ RA.

HADLEY P, *see* ADAMS SR.

HÄGGMAN H, ARONEN T. Transgene expression in regenerating cotyledons and embryogenic cultures of Scots pine 1147

HALL JL, *see* NEWELL JM.

HALL RD. Biotechnological applications for stomatal guard cells 369

HANÁČKOVÁ B, *see* POSPIŠILOVÁ J.

HANCOCK JT, *see* DESIKAN R.

HANCOCK JT, *see* NEILL SJ.

HÄNISCH TEN CATE CHH, *see* VAN DER SALM TPM.

HANSEN U-P, *see* BAUER CS.

HARALAMPIDIS K, MILIONI D, SANCHEZ J, BALTRUSCH M, HEINZ E, HATZOPOULOS P. Temporal and transient expression of stearoyl-ACP carrier protein desaturase gene during olive fruit development 1661

HÄRTEL H, GRIMM B. Consequences of chlorophyll deficiency for leaf carotenoid composition in tobacco synthesizing glutamate 1-semialdehyde aminotransferase antisense RNA: dependency on developmental age and growth light 535

HARTUNG W, WILKINSON S, DAVIES WJ. Factors that regulate abscisic acid concentrations at the primary site of action at the guard cell 361

HARWOOD JL, *see* WILLIAMS M.

HASS H, *see* EDWARDS D.

HATZOPOULOS P, *see* HARALAMPIDIS K.

HAUPT W, *see* TORRES RUIZ RA.

HAWES CR, *see* ANDREEVA AV.

HAWKESFORD MJ, *see* WARRILOW AGS.

HEATH J, *see* ROBINSON MF.

HECKENBERGER U, ROGGATZ U, SCHURR U. Effect of drought stress on the cytological status in *Ricinus communis* 181

HEDLEY CL, *see* WANG TL.

HEINEKE D, *see* BÜSSIS D.

HEINO P, NYLANDER M, PALVA T, BARTELS D. Isolation of a cDNA clone corresponding to a protein kinase differentially expressed in the resurrection plant *Craterostigma plantagineum* 1773

HEINO P, *see* MEZA-ZEPEDA LA.

HEINZ E, *see* HARALAMPIDIS K.

HEISE K-P, *see* ARANGO Y.

HELLER W, *see* HUTZLER P.

HEREDIA MA, *see* BALLESTEROS D.

HERMAN E, *see* ROBINSON DG.

HETHERINGTON AM, *see* LECKIE CP.

HETHERINGTON PR, MARSHALL G, KIRKWOOD RC, WARNER JM. Absorption and efflux of glyphosate by cell suspensions 527

HETHERINGTON SE, SMILLIE RM, DAVIES WJ. Photosynthetic activities of vegetative and fruiting tissues of tomato 1173

Hewitt CN, *see* STOKES NJ.

HILLMER S, *see* ROBINSON DG.

HIRASAWA E, *see* YOSHIDA I.

HODGES DM, *see* WESELAKE RJ.

HÖFTBERGER M, *see* BROSCH-SALOMON S.

HOLTMAN WL, DE GRAAFF AM, LEA PJ, KIJNE JW. Light-dependent expression of two catalase subunits in leaves of barley seedlings 1303

HOLZINGER A, *see* BROSCH-SALOMON S.

HUMPHREYS MW, PASAKINSKIENE I, JAMES AR, THOMAS H. Physically mapping quantitative traits for stress-resistance in the forage grasses (Review article) 1611

HUTTON JL, KNIGHT CD, MILLNER PA. The *Physcomitrella patens* GPα1 homologue is located at protonemal cell junctions 1113

HUTZLER P, FISCHBACH R, HELLER W, JUNGBLUT TP, REUBER S, SCHMITZ R, VEIT M, WEISSENBÖCK G, SCHNITZLER J-P. Tissue localization of phenolic compounds in plants by confocal laser scanning microscopy 953

INZÉ D, *see* MAY MJ.

INZÉ D, *see* SÁNCHEZ-FERNÁNDEZ R.

ITO H, *see* OKITA TW.

ITO O, *see* SANETRA CM.

JAGTAP V, BHARGAVA S, STREB P, FEIERABEND J. Comparative effect of water, heat and light stresses on photosynthetic reactions in *Sorghum bicolor* (L.) Moench 1715

JAMES AR, *see* HUMPHREYS MW.

JAMES CL, *see* ROMANOV VI.

JAMES EK, CRAWFORD RMM. Effect of oxygen availability on nitrogen fixation by two *Lotus* species under flooded conditions 599

JAMES W, *see* LAWSON T.

JARVIS AJ, DAVIES WJ. The coupled response of stomatal conductance to photosynthesis and transpiration 399

JOHN K, *see* CHILD RD.

JONES HG, *see* CLIFFORD SC.

JONES HG. Stomatal control of photosynthesis and transpiration 387

JONES MGK, *see* RUGKHLA A.

JONES P, KEANE EM, OSBORNE BA. Effects of alien cytoplasmic variation on carbon assimilation and productivity in wheat 1519

JOSHI S, *see* CLIFFORD SC.

JOUANIN L, *see* NOCTOR G.

JUNGBLUT TP, *see* HUTZLER P.

KAMBER L, FELLER U. Influence of the activation status and of ATP on phosphoribulokinase degradation 139

KAMEYA T, *see* YOSHIDA R.
KANNO A, *see* YOSHIDA R.
KARABOURNIOTIS G. Light-guiding function of foliar sclereids in the evergreen sclerophyll *Phillyrea latifolia*: a quantitiative approach 739
KAUDER F, *see* BÜSSIS D.
KEANE EM, *see* JONES P.
KEARSEY MJ. The principles of QTL analysis (a minimal mathematics approach) 1619
KEIZER LCP, *see* VAN DER SALM TPM.
KERP H, *see* EDWARDS D.
KIJNE JW, *see* HOLTMAN WL.
KIRKWOOD RC, *see* HETHERINGTON PR.
KLEINHOFS A, *see* STURARO M.
KNIGHT CD, *see* HUTTON JL.
KOCHIAN LV, *see* EBBS SD.
KONDO A, NOSE A, UENO O. Leaf inner structure and immunogold localization of some key enzymes involved in carbon metabolism in CAM plants 1953
KREBS D, *see* POSPIŠILOVÁ J.
KRISHNAN K, *see* CRAMER GR.
KROOK J, VREUGDENHIL D, DIJKEMA C, VAN DER PLAS LHW. Sucrose and starch metabolism in carrot (*Daucus carota* L.) cell suspensions analysed by ^{13}C-labelling: indications for a cytosol and a plastid-localised pentose phosphate pathway 1917
KUNERT KJ, *see* NOCTOR G.
KUTUZOV MA, *see* ANDREEVA AV.
LAFLEURIEL J, *see* TOURMENTE S.
LAMBERS H, *see* GROENEVELD HW.
LAMERS GEM, *see* WANG M.
LAMPRECHT I, *see* SEYMOUR RS.
LAPORTE J, *see* COUCHY I.
LAROCHE A, *see* WESELAKE RJ.
LARSSON EH, BORNMAN JF, ASP H. Influence of UV-B radiation and Cd^{2+} on chlorophyll fluorescence, growth and nutrient content in *Brassica napus* 1031
LATCHÉ A, *see* RAMASSAMY S.
LAWSON T, JAMES W, WEYERS J. A surrogate measure of stomatal aperture 1397
LAWSON T, WEYERS J, A'BROOK R. The nature of heterogeneity in the stomatal behaviour of *Phaseolus vulgaris* L. primary leaves 1387
LAZAROVÁ J, *see* ULLRICH WR.
LAZREG A, *see* TOURMENTE S.
LE BOT J, *see* GARY C.
LE DEUNFF E, *see* MATTHYS-ROCHON E.
LEA PJ, *see* HOLTMAN WL.
LEAVER C, *see* MAY MJ.
LECARDONNEL A, *see* BEAUJEAN A.
LECKIE CP, MCAINSH MR, MONTGOMERY L, PRIESTLEY AJ, STAXEN I, WEBB AAR, HETHERINGTON AM. Second messengers in guard cells 339
LEECH RM, *see* WILLIAMS M.
LEGAZ ME, DE ARMAS R, PIÑÓN D, VICENTE C. Relationships between phenolics-conjugated polyamines and sensitivity of sugarcane to smut (*Ustilago scitaminea*) 1723
LEIGH RA, *see* NEWELL JM.
LEOPOLD AC, *see* BERNAL-LUGO I.
LEROUGE P, *see* RAYON C.
LIN T-P, YEN W-L, CHIEN C-T. Disappearance of desiccation tolerance of imbibed crop seeds not associated with the decline of oligosaccharides 1203
LINDSEY K, *see* WILKINSON JE.
LINK SO, THIEDE ME, VAN BAVEL MG. An improved strain-gauge device for continuous field measurement of stem and fruit diameter 1583
LINNESTAD C, *see* STURARO M.
LIPS SH, *see* OMAROV RT.
LITTLE CHA, *see* EKLUND L.
LLUCH C, *see* SOUSSI M.
LLUSIÀ J, *see* PEÑUELAS J.
LOGAN BA, DEMMIG-ADAMS B, ADAMS III WW, GRACE SC. Antioxidants and xanthophyll cycle-dependent energy dissipation in *Cucurbita pepo* L. and *Vinca major* L. acclimated to four growth PPFDs in the field 1869
LOGAN BA, DEMMIG-ADAMS B, ADAMS III WW. Antioxidants and xanthophyll cycle-dependent energy dissipation in *Cucurbita pepo* L. and *Vinca major* L. upon a sudden increase in growth PPFD in the field 1881
LONCLE D, *see* GOUPIL P.
LONGNECKER NE, *see* EMERY RJN.
LONGNECKER NE, *see* MIGUEL LC.
LOPEZ-DELGADO H, DAT JF, FOYER CH, SCOTT IM. Induction of thermotolerance in potato microplants by acetylsalicylic acid and H_2O_2 713
LORENC-PLUCIŃSKA G. The effect of sulphite on the regulation of photosynthetic sucrose synthesis in poplar leaves 213
LORENCES EP, *see* CUTILLAS-ITURRALDE A.
LOVISOLO C, SCHUBERT A. Effects of water stress on vessel size and xylem hydraulic conductivity in *Vitis vinifera* L. 693
LU C, ZHANG J. Modifications in photosystem II photochemistry in senescent leaves of maize plants 1671
LU Z, NEUMANN PM. Water-stressed maize, barley and rice seedlings show species diversity in mechanisms of leaf growth inhibition 1945
LU Z, PERCY RG, QUALSET CO, ZEIGER E. Stomatal conductance predicts yields in irrigated Pima cotton and bread wheat grown at high temperatures 453
LUCAS H, *see* SIGNORA L.
LUGO T, *see* PILON-SMITS EAH.
LUO Y, *see* SIMS DA.
LÜTZ-MEINDL U, *see* BROSCH-SALOMON S.
LYTLE CM, *see* PILON-SMITS EAH.
MA Q, *see* MIGUEL LC.
MADORE MA, *see* GILBERT GA.
MANSFIELD TA, *see* ROBINSON MF.
MARENTES E, GRUSAK MA. Mass determination of low-molecular-weight proteins in phloem sap using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry 903
MARKHART AH, *see* FENNELL A.
MARSHALL B, ELLIS RP. Growth, yield and grain quality of barley (*Hordeum vulgare* L.) in response to nitrogen uptake. I. 1049
MARSHALL B, *see* ELLIS RP.
MARSHALL G, *see* HETHERINGTON PR.
MASLE J. Growth and stomatal responses of wheat seedlings to spatial and temporal variations in soil strength in bi-layered soils 1245
MATSUSHIMA H, *see* NONOGAKI H.
MATTHYS-ROCHON E, PIOLA F, LE DEUNFF E, MÒL R, DUMAS C. *In vitro* development of maize immature embryos: a tool for embryogenesis analysis 839
MAULE AJ, *see* CECCHINI E.
MAXWELL K, *see* ROBERTS A.
MAY MJ, *see* SÁNCHEZ-FERNÁNDEZ R.

MAY MJ, VERNOUX T, LEAVER C, VAN MONTAGU M, INZÉ D. Glutathione homeostasis in plants: implications for environmental sensing and plant development (Review article) 649
MCAINSH MR, *see* LECKIE CP.
MCCALLUM DG, *see* CECCHINI E.
MCCULLY ME, *see* ENNS LC.
MCELWAIN JC, *see* BEERLING DJ.
MEIJER AH, *see* WANG M.
MEINZER FC, *see* MELCHER PJ.
MEINZER FC, ZHU J. Nitrogen stress reduces the efficiency of the C_4 CO_2 concentrating system, and therefore quantum yield, in *Saccharum* (sugarcane) species 1227
MELCHER PJ, MEINZER FC, YOUNT DE, GOLDSTEIN G, ZIMMERMANN U. Comparative measurements of xylem pressure in transpiring and non-transpiring leaves by means of the pressure chamber and the xylem pressure probe 1757
MERODIO C, MUÑOZ MT, DEL CURA B, BUITRAGO D, ESCRIBANO MI. Effect of high CO_2 level on the titres of γ-aminobutyric acid, total polyamines and some pathogenesis-related proteins in cherimoya fruit stored at low temperature 1339
METODIEV MV. Hornet venom induces abundant expression of specific polypeptides in young barley leaves 27
MEUSER J, FRENSCH J. Hydraulic properties of living late metaxylem and interactions between transpiration and xylem pressure in maize 69
MEYER SE, *see* BAUER MC.
MEZA-ZEPEDA LA, BAUDO MM, PALVA ET, HEINO P. Isolation and characterization of a cDNA corresponding to a stress-activated cyclophilin gene in *Solanum commersonii* 1451
MIGUEL LC, LONGNECKER NE, MA Q, OSBORNE L, ATKINS CA. Branch development in *Lupinus angustifolius* L. I. 547
MILBORROW BV. A biochemical mechanism for hybrid vigour (Opinion article) 1063
MILIONI D, *see* HARALAMPIDIS K.
MILLER JE, *see* BOOKER FL.
MILLNER PA, *see* HUTTON JL.
MILNER JJ, *see* CECCHINI E.
MIMURA T, REID RJ, SMITH FA. Control of phosphate transport across the plasma membrane of *Chara corallina* 13
MINCHIN FR, *see* ARRESE-IGOR C.
MINCHIN FR, *see* GONZÁLEZ EM.
MINCHIN FR, *see* ROMANOV VI.
MINCHIN FR, *see* WITTY JF.
MINCHIN PEH, *see* THORPE MR.
MINCHIN PEH, *see* WALSH KB.
MINIC Z, *see* COUCHY I.
MIRALLES DJ, CALDERINI DF, POMAR KP, D'AMBROGIO A. Dwarfing genes and cell dimensions in different organs of wheat 1119
MÒL R, *see* MATTHYS-ROCHON E.
MOLINA-CANO JL, *see* FEBRERO A.
MONTGOMERY L, *see* LECKIE CP.
MORESHET S, COHEN S, ASSOR Z, BAR-JOSEPH M. Water relation of citrus exocortis viroid-infected grapefruit trees in the field 1421
MORISON JIL. Stomatal response to increased CO_2 concentration 443
MOROHASHI Y, *see* NONOGAKI H.
MORRIS P, *see* BETTANY AJE.
MOTT KA, BUCKLEY TN. Stomatal heterogeneity 407
MUENCH DG, *see* OKITA TW.
MÜLLER J, DULIEU H. Enhanced growth of non-photosynthesizing tobacco mutants in the presence of a mycorrhizal inoculum 707
MÜLLER-RÖBER B, EHRHARDT T, PLESCH G. Molecular features of stomatal guard cells 293
MUNIER-JOLAIN NG, MUNIER-JOLAIN NM, NEY B, ROCHE R, DUTHION C. Seed growth rate in grain legumes. I. 1963
MUNIER-JOLAIN NG, NEY B. Seed growth rate in grain legumes. II. 1971
MUNIER-JOLAIN NM, *see* MUNIER-JOLAIN NG.
MUÑOZ MT, *see* MERODIO C.
NAGY Z, *see* PROCTOR MCF.
NEILL SJ, BURNETT EC, DESIKAN R, HANCOCK JT. Cloning of a wilt-responsive cDNA from an *Arabidopsis thaliana* suspension culture cDNA library that encodes a putative 9-*cis*-epoxy-carotenoid dioxygenase 1893
NEILL SJ, *see* DESIKAN R.
NEUMANN PM, *see* LU Z.
NEWELL JM, LEIGH RA, HALL JL. Vacuole development in cultured evacuolated oat mesophyll protoplasts 817
NEY B, *see* MUNIER-JOLAIN NG.
NOBEL PS, *see* WANG N.
NOCTOR G, ARISI A-CM, JOUANIN L, KUNERT KJ, RENNENBERG H, FOYER CH. Glutathione: biosynthesis, metabolism and relationship to stress tolerance explored in transformed plants (Review article) 623
NOCTOR G, FOYER CH. A re-evaluation of the ATP:NADPH budget during C_3 photosynthesis: A contribution from nitrate assimilation and its associated respiratory activity? (Review article) 1895
NOGUÉS S, *see* ALLEN DJ.
NOMAGUCHI M, *see* NONOGAKI H.
NONOGAKI H, NOMAGUCHI M, MOROHASHI Y, MATSUSHIMA H. Development and localization of endo-β-mannanase in the embryo of germinating and germinated tomato seeds 1501
NOSE A, *see* KONDO A.
NYLANDER M *see*, HEINO P.
OCAÑA A, *see* SOUSSI M.
OKITA TW, CHOI S-B, ITO H, MUENCH DG, WU Y, ZHANG F. Entry into the secretory system—the role of mRNA localization 1081
OLMOS E, *see* RAMASSAMY S.
OLSEN O-A, *see* STURARO M.
OMAROV RT, SAGI M, LIPS SH. Regulation of aldehyde oxidase and nitrate reductase in roots of barley (*Hordeum vulgare* L.) by nitrogen source and salinity 897
ONG LM, *see* FOWLER MR.
OPPEDIJK BJ, *see* WANG M.
OREN R, *see* PATAKI DE.
OSBORNE BA, *see* JONES P.
OSBORNE CP, *see* BEERLING DJ.
OSBORNE L, *see* MIGUEL LC.
PALVA ET, *see* MEZA-ZEPEDA LA.
PALVA T, *see* HEINO P.
PANAVAS T, WALKER EL, RUBINSTEIN B. Possible involvement of abscisic acid in senescence of daylily petals 1987
PASAKINSKIENE I, *see* HUMPHREYS MW.
PASSAMA L, *see* TILLARD P.
PATAKI DE, OREN R, PHILIPS N. Responses of sap flux and stomatal conductance of *Pinus taeda* L. trees to stepwise reductions in leaf area 871
PEARSON KJ, *see* BJÖRKMAN T.
PEARSON S, *see* ADAMS SR.
PECH J-C, *see* RAMASSAMY S.

PEI Z-M, SCHROEDER JI, SCHWARZ M. Background ion channel activities in *Arabidopsis* guard cells and review of ion channel regulation by protein phosphorylation events 319

PEISKER M, *see* ECKSTEIN J.

PEÑUELAS J, FILELLA I, LLUSIÀ J, SISCART D, PIÑOL J. Comparative field study of spring and summer leaf gas exchange and photobiology of the mediterranean trees *Quercus ilex* and *Phillyrea latifolia* 229

PERCY RG, *see* LU Z.

PÉROS J-P, TORREGROSA L, BERGER G. Variability among *Vitis vinifera* cultivars in micropropagation, organogenesis and antibiotic sensitivity 171

PETERSON CA, *see* STEUDLE E.

PHILIPS N. *see* PATAKI DE.

PICARD G, *see* TOURMENTE S.

PILON-SMITS EAH, DE SOUZA MP, LYTLE CM, SHANG C, LUGO T, TERRY N. Selenium volatilization and assimilation by hybrid poplar (*Populus tremula* × *alba*) 1889

PIÑOL J, *see* PEÑUELAS J.

PIÑÓN D, *see* LEGAZ ME.

PIOLA F, *see* MATTHYS-ROCHON E.

PLESCH G, *see* MÜLLER-RÖBER B.

PLIETH C, *see* BAUER CS.

POLLOCK CJ, *see* GALLAGHER JA.

POMAR KP, *see* MIRALLES DJ.

POMEROY MK, *see* WESELAKE RJ.

POPP M, *see* CLIFFORD SC.

POSPIŠILOVÁ J, WILHELMOVÁ N, SYNKOVÁ H, ČATSKÝ J, KREBS D, TICHÁ I, HANÁČKOVÁ B, SNOPEK J. Acclimation of tobacco plantlets to *ex vitro* conditions as affected by application of abscisic acid 863

POUTEAU S, *see* TOOKE F.

POZO MJ, AZCÓN-AGUILAR C, DUMAS-GAUDOT E, BAREA JM. Chitosanase and chitinase activities in tomato roots during interactions with arbuscular mycorrhizal fungi or *Phytophthora parasitica* 1729

PRIESTLEY AJ, *see* LECKIE CP.

PRINSEN E, *see* VUYLSTEKER C.

PROCTOR MCF, NAGY Z, CSINTALAN Z, TAKÁCS Z. Water-content components in bryophytes: analysis of pressure-volume relationships 1845

PUPILLO P, *see* SCAGLIARINI S.

QUALSET CO, *see* LU Z.

RAIKHEL NV, *see* BEEVERS L.

RAMASSAMY S, OLMOS E, BOUZAYEN M, PECH J-C, LATCHÉ A. 1-aminocyclopropane-1-carboxylate oxidase of apple fruit is periplasmic 1909

RAMBOUR S, *see* GOUPIL P.

RAMBOUR S, *see* VUYLSTEKER C.

RAWSTHORNE S, *see* EASTMOND PJ.

RAY JD, SINCLAIR TR. The effect of pot size on growth and transpiration of maize and soybean during water deficit stress 1381

RAYMOND P, *see* BOURBOULOUX A.

RAYON C, LEROUGE P, FAYE L. The protein *N*-glycosylation in plants 1463

REID CD, FISCUS EL, BURKEY KO. Combined effects of chronic ozone and elevated CO_2 on Rubisco activity and leaf components in soybean (*Glycine max*) 1999

REID CD, FISCUS EL. Effects of elevated [CO_2] and/or ozone on limitations to CO_2 assimilation in soybean (*Glycine max*) 885

REID RJ, *see* MIMURA T.

RENNENBERG H, *see* GEßLER A.

RENNENBERG H, *see* NOCTOR G.

REUBER S, *see* HUTZLER P.

RICHNER W, *see* SOWINSKI P.

RIDING RT, *see* EKLUND L.

ROBERTS A, BORLAND AM, MAXWELL K, GRIFFITHS H. Ecophysiology of the C_3-CAM intermediate *Clusia minor* L. in Trinidad: seasonal and short-term photosynthetic characteristics of sun and shade leaves 1563

ROBERTS LM, *see* FRIGERIO L.

ROBERTSON EJ, *see* WILLIAMS M.

ROBIN P, *see* CÁRDENAS-NAVARRO R.

ROBINSON D, *see* DENECKE J.

ROBINSON DG, GALILI G, HERMAN E, HILLMER S. Topical aspects of vacuolar protein transport: autophagy and prevacuolar compartments 1263

ROBINSON MF, HEATH J, MANSFIELD TA. Disturbances in stomatal behaviour caused by air pollutants 461

ROCHE R, *see* MUNIER-JOLAIN NG.

ROGGATZ U, *see* HECKENBERGER U.

ROHDE A, ARDILES -DIAZ W, VAN MONTAGU M, BOERJAN W. Isolation and expression analysis of an ABSCISIC ACID-INSENSITIVE 3 (AB13) homologue from *Populus trichocarpa* 1059

ROMANOV VI, GORDON AJ, MINCHIN FR, WITTY JF, SKØT L, JAMES CL, TIKHONOVICH IA. Physiological and biochemical characteristics of FN1, a 'fixation impaired' mutant of pea (*Pisum sativum* L.) 1789

ROSCOE TJ, *see* VICIENT CM.

ROYUELA M, *see* GONZÁLEZ EM.

RUBINSTEIN B, *see* PANAVAS T.

RUGKHLA A, JONES MGK. Somatic embryogenesis and plantlet formation in *Santalum album* and *S. spicatum* 563

RUITER RK, *see* VAN ELDIK GJ.

RUSSINOVA E, *see* FOWLER MR.

SAGI M, *see* OMAROV RT.

SANAN N, SOPORY SK. A role of G-proteins and calcium in light-regulated primary leaf formation in *Sorghum bicolor* 1695

SANCHEZ J, *see* HARALAMPIDIS K.

SÁNCHEZ RA, *see* CASAL JJ.

SÁNCHEZ-FERNÁNDEZ R, ARDILES-DÍAZ W, VAN MONTAGU M, INZÉ D, MAY MJ. Cloning of a novel *Arabidopsis thaliana RGA*-like gene, a putative member of the VHIID-domain transcription factor family 1609

SANDERS D, *see* ALLEN GJ.

SANETRA CM, ITO O, VIRMANI SM, VIEK PLG. Remobilization of nitrogen from senescing leaves of pigeonpea (*Cajanus cajan* (L.) Millsp.): genotypic differences across maturity groups? 853

SANGWAN RS, *see* BEAUJEAN A.

SANGWAN-NORREEL BS, *see* BEAUJEAN A.

SANKHLA N, *see* CLIFFORD SC.

SATIAT-JEUNEMAITRE B, *see* COUCHY I.

SATO T, *see* YOSHIDA R.

SATTELMACHER B, *see* GERENDÁS J.

SAWHNEY VK, *see* SINGH S.

SCAGLIARINI S, TROST P, PUPILLO P. The non-regulatory isoform of NAD(P)-glyceraldehyde-3-phosphate dehydrogenase from spinach chloroplasts 1307

SCHINKEL H, STRELLER S, WINGSLE G. Multiple forms of extracellular superoxide dismutase in needles, stem tissues and seedlings of Scots pine 931

SCHMITZ R, *see* HUTZLER P.

SCHNITZLER J-P, *see* HUTZLER P.

SCHÖNKNECHT G, BAUER CS, SIMONIS W. Light-dependent signal transduction and transient changes in cytosolic Ca^{2+} in a unicellular green alga (Review article) 1

SCHÖNKNECHT G, *see* BAUER CS.

SCHÖNKNECHT G, *see* BETHMANN B.
SCHRAUWEN JAM, *see* VAN ELDIK GJ.
SCHREMPP S, *see* GEßLER A.
SCHROEDER JI, *see* PEI Z-M.
SCHUBERT A *see* LOVISOLO C.
SCHULTZE M, *see* GEßLER A.
SCHULTZE-MOTEL P, *see* SEYMOUR RS.
SCHÜNEMANN D, *see* BÜKER M.
SCHURR U, *see* HECKENBERGER U.
SCHWARZ M, *see* PEI Z-M.
SCOTT IM, *see* LOPEZ-DELGADO H.
SCOTT NW, *see* FOWLER MR.
SEEMANN JR,*see* SIMS DA.
SELISKAR DM, *see* WU J.
SEYMOUR RS, SCHULTZE-MOTEL P, LAMPRECHT I. Heat production by sacred lotus flowers depends on ambient temperature, not light cycle 1213
SHACKEL KA, TURNER NC. Seed coat cell turgor responds rapidly to air humidity in chickpea and faba bean 1413
SHANG C, *see* PILON-SMITS EAH.
SIGNORA L, GALTIER N, SKØT L, LUCAS H, FOYER CH. Over-expression of sucrose phosphate synthase in *Arabidopsis thaliana* results in increased foliar sucrose/starch ratios and favours decreased foliar carbohydrate accumulation in plants after prolonged growth with CO_2 enrichment 669
SIMONIS W, *see* BAUER CS.
SIMONIS W, *see* BETHMANN B.
SIMONIS W, *see* SCHÖNKNECHT G.
SIMONNEAU T, *see* TARDIEU F.
SIMS DA, SEEMANN JR, LUO Y. Elevated CO_2 concentration has independent effects on expansion rates and thickness of soybean leaves across light and nitrogen gradients 583
SINCLAIR TR, *see* RAY JD.
SINGH S, SAWHNEY VK. Abscisic acid in a male sterile tomato mutant and its regulation by low temperature 199
SISCART D, *see* PEÑUELAS J.
SKØT L, *see* ROMANOV VI.
SKØT L, *see* SIGNORA L.
SLATER A, *see* FOWLER MR.
SMART DR, BLOOM AJ. Investigations of ion absorption during NH_4^+ exposure. I. 95
SMILLIE RM, *see* HETHERINGTON SE.
SMITH DL, *see* ABDIN OA.
SMITH FA, *see* MIMURA T.
SNOPEK J, *see* POSPIŠILOVÁ J.
SOLDATI A, *see* SOWINSKI P.
SOLOMOS T, *see* FANG Z.
SOPORY SK, *see* SANAN N.
SOUSSI M, OCAÑA A, LLUCH C. Effects of salt stress on growth, photosynthesis and nitrogen fixation in chickpea (*Cicer arietinum* L.) 1329
SOWINSKI P, RICHNER W, SOLDATI A, STAMP P. Assimilate transport in maize (*Zea mays* L.) seedlings at vertical low temperature gradients in the root zone 747
STAMP P, *see* SOWINSKI P.
STAXEN I, *see* LECKIE CP.
STEUDLE E, PETERSON CA. How does water get through roots? (Review article) 775
STEWART GR, *see* DODD IC.
STEWART GR, *see* WOODALL GS.
STOKES NJ, TERRY GM, HEWITT CN. The impact of ozone, isoprene and propene on antioxidant levels in two leaf classes of velvet bean (*Mucuna pruriens* L.) 115
STREB P, *see* JAGTAP V.
STREETER JG. Effect of elevated calcium concentration in infected cells of soybean (*Glycine max* (L.) Merr.) nodules on nitrogenase activity and N input to the plant 997
STRELLER S, *see* SCHINKEL H.
STURARO M, LINNESTAD C, KLEINHOFS A, OLSEN O-A, DOAN DNP. Characterization of a cDNA encoding a putative extensin from developing barley grains (*Hordeum vulgare* L.) 1935
SUNDBERG B, *see* SUNDBLAD L-G.
SUNDBLAD L-G, GELADI P, DUNBERG A, SUNDBERG B. The use of image analysis and automation for measuring mitotic index in apical conifer meristems 1749
SYNKOVÁ H, *see* POSPIŠILOVÁ J.
TAKÁCS Z, *see* PROCTOR MCF.
TALBOTT LD, ZEIGER E. The role of sucrose in guard cell osmoregulation 329
TALLMAN G, *see* TAYLOR JE.
TARDIEU F, SIMONNEAU T. Variability among species of stomatal control under fluctuating soil water status and evaporative demand: modelling isohydric and anisohydric behaviours 419
TAYLOR G, *see* CROOKSHANKS M.
TAYLOR JE, ABRAM B, BOORSE G, TALLMAN G. Approaches to evaluating the extent to which guard cell protoplasts of *Nicotiana glauca* (tree tobacco) retain their characteristics when cultured under conditions that affect their survival, growth and differentiation 377
TEIXEIRA AR, *see* ESQUÍVEL MG.
TERRY GM, *see* STOKES NJ.
TERRY N, *see* PILON-SMITS EAH.
THIEDE ME, *see* LINK SO.
THOMAS H, *see* HUMPHREYS MW.
THOMPSON AJ, *see* CORLETT JE.
THORPE MR, *see* WALSH KB.
THORPE MR, WALSH KB, MINCHIN PEH. Photoassimilate partitioning in nodulated soybean. I. 1805
TICHÁ I, *see* POSPIŠILOVÁ J.
TIKHONOVICH IA, *see* ROMANOV VI.
TILLARD P, PASSAMA L, GOJON A. Are phloem amino acids involved in the shoot to root control of NO_3^- uptake in *Ricinus communis* plants? 1371
TIMMS E, *see* BETTANY AJE.
TINH TK, *see* COLMER TD.
TOOKE F, POUTEAU S, BATTEY N. Non-reversion of *Impatiens* in the absence of meristem commitment 1681
TORREGROSA L, *see* PÉROS J-P.
TORRES RUIZ RA, HAUPT W, HABERER G. The use of balanced lines for preservation of mutants in *Arabidopsis* and other plants 1597
TOURMENTE S, LAZREG A, LAFLEURIEL J, TUTOIS S, CUVILLIER C, ESPAGNOL MC, PICARD G. Identification of new minisatellites loci in *Arabidopsis thaliana* 21
TROST P, *see* SCAGLIARINI S.
TURNER NC, *see* SHACKEL KA.
TUTOIS S, *see* TOURMENTE S.
TWELL D, *see* WILKINSON JE.
UENO O, *see* KONDO A.
UENO O. Immunogold localization of photosynthetic enzymes in leaves of various C_4 plants, with particular reference to pyruvate, orthophosphate dikinase 1637
ULLRICH CI, *see* ULLRICH WR.
ULLRICH WR, LAZAROVÁ J, ULLRICH CI, WITT FG, APARICIO PJ. Nitrate uptake and extracellular alkalinization by the green alga *Hydrodictyon reticulatum* in blue and red light 1157
ULVSKOV P, *see* CHILD RD.

VAN BAVEL MG, *see* LINK SO.
VAN DER PLAS LHW, *see* KROOK J.
VAN DER PLAS LHW, *see* VAN DER SALM TPM.
VAN DER SALM TPM, BOUWER R, VAN DIJK AJ, KEIZER LCP, HÄNISCH TEN CATE CHH, VAN DER PLAS LHW, DONS JJM. Stimulation of scion bud release by *rol* gene transformed rootstocks of *Rosa hybrida* L. 847
VAN DER WESTHUIZEN MM, CRAMER MD. The influence of elevated rhizosphere dissolved inorganic carbon concentrations on respiratory O_2 and CO_2 flux in tomato roots 1977
VAN DIJK AJ, *see* VAN DER SALM TPM.
VAN DUIJN B, *see* WANG M.
VAN ELDIK GJ, RUITER RK, VAN HERPEN MMA, SCHRAUWEN JAM, WULLEMS GJ. An alcohol dehydrogenase-like gene is specifically expressed in potato pistils 1453
VAN HERPEN MMA, *see* VAN ELDIK GJ.
VAN LAMMEREN AAM, *see* XU X.
VAN MONTAGU M, *see* MAY MJ.
VAN MONTAGU M, *see* ROHDE A.
VAN MONTAGU M, *see* SÁNCHEZ-FERNÁNDEZ R.
VAN ONCKELEN HA, *see* CHILD RD.
VAN ONCKELEN HA, *see* VUYLSTEKER C.
VEEN BW, *see* BLOM-ZANDSTRA M.
VEIT M, *see* HUTZLER P.
VERNOUX T, *see* MAY MJ.
VICENTE C, *see* LEGAZ ME.
VICIENT CM, ROSCOE TJ, DELSENY M. Characterization of an *Em-like* gene of *Brassica napus* 1061
VIEK PLG, *see* SANETRA CM.
VIRMANI SM, *see* SANETRA CM.
VITALE A, *see* DENECKE J.
VOGELZANG SA, *see* BLOM-ZANDSTRA M.
VON ARNOLD S, *see* EGERTSDOTTER U.
VOUÈ M, *see* GILLET C.
VREUGDENHIL D, *see* KROOK J.
VREUGDENHIL D, *see* WITTICH PE.
VREUGDENHIL D, *see* XU X.
VUYLSTEKER C, PRINSEN E, BOUTIN J-P, VAN ONCKELEN HA, RAMBOUR S. Evidence for nitrate reductase expression during initiation of lateral roots by NAA in chicory 937
WALKER EL, *see* PANAVAS T.
WALSH KB, *see* THORPE MR.
WALSH KB, THORPE MR, MINCHIN PEH. Photoassimilate partitioning in nodulated soybean. II. 1817
WALSH KB, THORPE MR, MINCHIN PEH. Photoassimilate partitioning in nodulated soybean. III. 1827
WANG M, OPPEDIJK BJ, CASPERS MPM, LAMERS GEM, BOOT MJ, GEERLINGS DNG, BAKHUIZEN R, MEIJER AH, VAN DUIJN B. Spatial and temporal regulation of DNA fragmentation in the aleurone of germinating barley 1293
WANG N, ZHANG H, NOBEL PS. Carbon flow and carbohydrate metabolism during sink-to-source transition for developing cladodes of *Opuntia ficus-indica* 1835
WANG TL, BOGRACHEVA TY, HEDLEY CL. Starch: as simple as A, B, C? (Review article) 481
WARNER JM, *see* HETHERINGTON PR.
WARRILOW AGS, HAWKESFORD MJ. Separation, subcellular location and influence of sulphur nutrition on isoforms of cysteine synthase in spinach 1625
WEBB AAR, *see* LECKIE CP.
WEISSENBÖCK G, *see* HUTZLER P.
WESELAKE RJ, BYERS SD, DAVOREN JM, LAROCHE A, HODGES DM, POMEROY MK, FURUKAWA-STOFFER TL. Triacylglycerol biosynthesis and gene expression in microspore-derived cell suspension cultures of oilseed rape 33
WEYERS J, *see* LAWSON T.
WHALLEY WR, BENGOUGH AG, DEXTER AR. Water stress induced by PEG decreases the maximum growth pressure of the roots of pea seedlings 1689
WIENGWEERA A, *see* COLMER TD.
WILHELMOVÁ N, *see* POSPIŠILOVÁ J.
WILKINSON JE, LINDSEY K, TWELL D. Antisense-mediated suppression of transgene expression targeted specifically to pollen 1481
WILKINSON S, *see* CORLETT JE.
WILKINSON S, *see* HARTUNG W.
WILLIAMS M, ROBERTSON EJ, LEECH RM, HARWOOD JL. Lipid metabolism in leaves from young wheat (*Triticum aestivum* cv. Hereward) plants grown at two carbon dioxide levels 511
WILSON C, *see* GILBERT GA.
WINGSLE G, *see* SCHINKEL H.
WITT FG, *see* ULLRICH WR.
WITTE WT, *see* AUGÉ RM.
WITTE WT, *see* CROKER JL.
WITTICH PE, VREUGDENHIL D. Localization of sucrose synthase activity in developing maize kernels by *in situ* enzyme histochemistry 1163
WITTY JF, MINCHIN FR. Hydrogen measurements provide direct evidence for a variable physical barrier to gas diffusion in legume nodules 1015
WITTY JF, MINCHIN FR. Methods for the continuous measurement of O_2 consumption and H_2 production by nodulated legume root systems 1041
WITTY JF, *see* ROMANOV VI.
WOODALL GS, DODD IC, STEWART GR. Contrasting leaf development within the genus *Syzygium* 79
WOODALL GS, *see* DODD IC.
WOODALL GS, STEWART GR. Do anthocyanins play a role in UV protection of the red juvenile leaves of *Syzygium*? 1447
WOODWARD FI. Do plants really need stomata? 471
WU J, SELISKAR DM. Salinity adaptation of plasma membrane H^+-ATPase in the salt marsh plant *Spartina patens*: ATP hydrolysis and enzyme kinetics 1005
WU Y, *see* OKITA TW.
WULLEMS G J, *see* VAN ELDIK GJ.
XU X, VREUGDENHIL D, VAN LAMMEREN AAM. Cell division and cell enlargement during potato tuber formation 573
YAGI K, *see* YONEYAMA T.
YAMAGATA H, *see* YOSHIDA I.
YEN W-L, *see* LIN T-P.
YEO A. Molecular biology of salt tolerance in the context of whole-plant physiology (Review article) 915
YONEYAMA T, FUJIHARA S, YAGI K. Natural abundance of ^{15}N in amino acids and polyamines from leguminous nodules: unique ^{15}N enrichment in homospermidine 521
YOSHIDA I, YAMAGATA H, HIRASAWA E. Light-regulated gene expression of *S*-adenosylmethionine decarboxylase in *Pharbitis nil* 617
YOSHIDA R, SATO T, KANNO A, KAMEYA T. Streptomycin mimics the cool temperature response in rice plants 221
YOUNT DE, *see* MELCHER PJ.
ZEIGER E, *see* LU Z.
ZEIGER E, *see* TALBOTT LD.
ZEIGER E, ZHU J. Role of zeaxanthin in blue light photoreception and the modulation of light–CO_2 interactions in guard cells 433

ZHANG F, *see* OKITA TW.
ZHANG H, *see* WANG N.
ZHANG J, *see* LU C.
ZHOU X, *see* ABDIN OA.
ZHU J, *see* MEINZER FC.
ZHU J, *see* ZEIGER E.
ZHU Z, *see* GERENDÁS J.
ZIMMERMANN U, *see* MELCHER PJ.